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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)					
Office Action Summary		10/611,688	MILLER ET AL.					
		Examiner	Art Unit					
		Zheng Wei	2.192					
Period fo	The MAILING DATE of this communication or Reply	n appears on the cover sheet w	with the correspondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on	17 May 2007						
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
,	Since this application is in condition for all		tters, prosecution as to the	merits is				
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Disposition of Claims								
4)[🔀]	Claim(s) <u>1-42</u> is/are pending in the applica	ation						
	4a) Of the above claim(s) is/are with		·					
	Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1-42</u> is/are rejected.							
·	Claim(s) is/are objected to.							
·	Claim(s) are subject to restriction a	nd/or election requirement.						
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·	The specification is objected to by the Exa The drawing(s) filed on <u>30 June 2003</u> is/an		ected to by the Evaminer					
10)[	Applicant may not request that any objection to		•					
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11)		•	• • •	• •				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119								
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· ·	Acknowledgment is made of a claim for for	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
a)[	a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.							
	<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date								
3) 🔲 Inform	mation Disclosure Statement(s) (PTO/SB/08)	5) D Notice of	Informal Patent Application					
Paper No(s)/Mail Date 6)  Other:								

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#### **DETAILED ACTION**

#### Remarks

- 1. This office action is in response to the amendment filed on 05/17/2007.
- 2. Claims 1, 5, 6,13-16, 24, 28, 29 and 36-42 have been amended.
- 3. The 35 U.S.C. 101 rejection to Claims 5, 13, 28 and 35 is withdrawn in view of Applicant's amendment
- 4. Claims 1-42 remain pending and have been examined.

# Response to Arguments

- 5. Applicant's arguments filed on 05/17/2007, in particular on pages 19-23, have been fully considered but they are not persuasive. For example:
  - At page 19, section "DuBois Fail to Disclose, Teach or Suggest, Parameter Values, Programmable Machines", the Applicant contends that claim 6 is not obvious by the teaching of DuBois, because DuBois does not build a programmable machine and the parameter values in the configuration files are entered initially by someone. However, the examiner respectively disagrees. First of all, imake is used to running iMakefile combined with configuration file to generated machine dependent Makefile to generate executable code for programmable machine as DuBois disclosed at p.23, Figure 2-1; Secondly, the parameter values initially entered by user in the configuration files are not configuration instructions, just parameters of related

to machine's configuration. Configuration instructions are generated by running iMakefile. Therefore, DuBois does teach the limitation of claim 6;

- Programmable machines", the Applicant argues that Vaughan is not anticipated claim 1, because Vaughan specifically states it does not produce any libraries of its own. However, there is nowhere in the specification discloses about generating/creating a script library/library as Applicant added to the amended claims. The specification only discloses the configuration objects are drawn from a library of such objects (see for example, section "summary"). The Applicant also argues that Vaughan builds intermediate files for programs, not the build management logic configured to specify a set of objects from the script library to implement the configuration of the programmable machine. However, Vaughan does use management logic to generating configuration instruction to make the executable for the programmable machine as Vaughan teaches at p.35, line 6-11). Therefore, Vaughan does anticipate claim 1.
- At page 22, section "Suorsa Fails to Disclose Building a programmable Machine", the Applicant pointes out that Figure 7 of Suorsa shows the functions are to maintain information about all of the devices and to store and provide the software hat is loaded on the devices, not generating configuration instructions to build a programmable machine. However, Suorsa also discloses provisioning which is configuring the programmable machine

(see for example, Fig.5, step 2a, 3a about "Configure" and related text).

Therefore, claim 14 is anticipated by Suorsa.

# Claim Objections

6. Claims 1, 6, 24 and 38 are objected to because of the following informalities:

Claims 1, 6, 24 and 38: "an user interface" is a typo and should be changed to –a

user interface --

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 8. Claims 1-13 and 16-28 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

  Claims 1, 6, 16: Claims 1, 6 and 16 have been amended to added new subject "creating a script library" and "creating a library" which are not described in the

specification. The specification only discloses generating configuration instruction by using the object and parameter in a library, but not discloses the detail step and method about how to generate/create the library/script library. (see for example, section "Abstract" the definition module generate the configuration instructions by drawing from a generic library of configuration objects having a variety of attributes and parameters associated therewith."). Therefore, the claimed subject matter about creating library is not described in the specification and the one skilled in the relevant art is not able to have possession of the claimed the invention.

Claims 2-5, 7-13 and 17-28: These claims are dependent claims of claims as address above. Therefore, they are also rejected for the same reason.

- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 10. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 11. The term " library in a standardized and generic form" in claims 1-6 is a relative term which renders the claim indefinite. The term " standardized and generic form " is not defined by the claim, the specification does not provide a standard

for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. For the purpose of compact prosecution, the examiner treats this term as a general term –library--, which is a collection of object and parameter.

# Claim Rejections - 35 USC § 101

12. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

13. Claims 15 and 39-42 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

# Claims 15 and 39:

Claims 15 and 39 recite "A computer readable medium having stored thereon a data structures..." as the claimed subject matter. However, the data structure associated with the computer readable medium does not impart any functionality when employed as a computer element. Therefore they do not produce a useful, concrete, tangible result and are thus not statutory

#### Claim 40:

Claim 40 recites "A computer readable medium having stored thereon information arranged according to schema data structures..." as the claimed subject matter. However, the information and schema data structures associated

with the computer readable medium does not impart any functionality when employed as a computer element. The information only comprises data or software listings Per Se. Therefore it does not produce a useful, concrete, tangible result and is thus not statutory.

## Claims 41 and 42:

Claims 41 and 42 are dependent claims of claim 40. There claims all fail to remedy the 35 U.S.C. 101 nonstatutory problem of claim 40. Therefore, they are also rejected accordingly.

# Claim Rejections - 35 USC § 102

- 14. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

  A person shall be entitled to a patent unless
  - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
  - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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15. Claims 24-28 are rejected under 35 U.S.C. 102(b) as being anticipated by <u>Vaughan</u> (Vaughan et al., GNU Autoconf, Automake and Libtool, 1<sup>st</sup> edition, Published on Oct. 2000)

# Claim 24:

<u>Vaughan</u> discloses an apparatus for generating configuration instructions used to build a programmable machine, comprising:

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- A build management logic configured to automate building (see for example, p.23, section 4.2 "Generated Output Files", lines 5-12, "First, we generate "configure' and related text)
- the library having:
  - a plurality of objects representing aspects of a configuration process for a specific collection of programmable machines (see for example, p.23, line 6- p.24, line 8, "aclocal", "autoconf", "automake" and related macro); and
  - a plurality of parameters associated with respective objects, wherein at least one of the parameters includes an unspecified value (see for example, p.21, lines 23-24, user input "configure.in", "makefile.am" as parameters for "autoconf" and "automake" discussed above); and
- build management logic configured to specify a set of objects from the library to implement the configuration of the programmable machine, and to generate the configuration instructions from the set of objects (see for example, p.22, lines 6-10, "The 'configure.in' is a template of macro invocations and shell code fragments used by autoconf to produce a

'configure' script"), wherein the build management logic is further configured to generate the configuration instructions by determining the value of the unspecified value (see for example, p.35, lines 6-11, macro code example to determine if the particular target system is sparc machine or mips processor, then do different something, e.g., "sparc\* -sun-solaris\*) do something ;;"; "mips\*-\*-elf\*) do something ;;")

• wherein generating configuration instructions for the specific combination of programmable machines; and the build management logic is further configured to provide an user interface to manage data assignment for the specific collection of programmable machines, wherein the user interface accepts input and returns output (see for example, section 4.1 "User-Provided Input Files" and "Generated Output Files" indicates that there must have a user interface for display output as example output shows at p.23)

#### Claim 25:

<u>Vaughan</u> discloses the method according to claim 24, wherein the set of objects from the library have a hierarchical order, and wherein the at least one parameter that includes the unspecified value is associated with an object located at a defined level within the hierarchal order (see for example, p.23, lines 8-10, "Because 'configure.in' contains macro vocations that not known to Autoconf itself –AM\_INIT\_AUTOMAKE being a case in point—it is necessary to collect all the macro definitions for Autoconf to use when generating 'configure'.").

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Claim 26:

<u>Vaughan</u> also discloses the method according to claim 25, wherein the build management logic is configured to determine the unspecified value by determining the value from an object that is higher in the hierarchical order than the defined level ((see for example, p.38, lines 10-21, "The filename to include can start with '\$(top\_srcdir)' to indicate that it should be found relative to the topmost directory of the project; if it is a relative path or if it stars with '\$(srcdir)', it

Claim 27:

is relative to the current directory.").

<u>Vaughan</u> further discloses the method according to claim 24, wherein the at least one parameter that includes the unspecified value comprises an expression that identifies a location to determine the value, and wherein the build management logic is configured to specify the value by accessing the location specified in the expression (see for example, p.38, lines 10-21, "Automake supports include directives", e.g., "include \$(top\_scrdir)/config/Make-rules" to indicate the location of the make rules).

Claim 28:

<u>Vaughan</u> discloses a computer readable storage medium executed on a computing device having data structures and machine readable instructions for

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implementing the library and the build management logic of claim 24 (see for example of running the "automake", p.39, lines 15-16, "\$ automake" and output message "automake: Makefile.am: not supported: source file 'subdir1/something.c' is in subdirectory" indicates that automake and Makefile.am

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are stored in the computer readable medium and execute by the computer to implement the library and the build management logic discussed as in claim 24 above.)

16. Claims 29 and 31-36 are rejected under 35 U.S.C. 102(b) as being anticipated by <u>DuBois</u> (Paul DuBois, "Software Portability with imake", 1<sup>st</sup> edition, Published on July 1993)

## Claim 29:

<u>DuBois</u> discloses a method for generating configuration instructions used to build a programmable machine, comprising:

- a library having generic objects representing aspects of a configuration process for a specific collection of programmable machines(see for example, p.23, Figure 2-1, elements "Imakefile", "configuration files" and related text); and
- build management logic configured to generate the configuration instructions used to build the programmable machine by organizing the generic objects in the library based on a framework established by a template (see for example, p.23, Figure 2-1, elements "Imakefile",

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"configuration files", "Makefile" and related text, also see p.64, Figure 4-2 about template file, "Section of Imake.tmpl specifying configuration defaults").

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wherein generating configuration instructions for the specific combination of programmable machines; and the build management logic is further configured to provide an user interface to manage data assignment for the specific collection of programmable machines, wherein the user interface accepts input and returns output (see for example, section 4.1 "User-Provided Input Files" and "Generated Output Files" indicates that there must have a user interface for display output as example output shows at p.23)

## Claim 31:

<u>DuBois</u> discloses the method according to claim 29, wherein the build management logic is configured to transfer the template to another user, or receive the template from the other user (see for example, p.10, Figure 1-4, "Software development and porting with imake and make", steps about transferring software and Imakefile from Machines 1 to Machines 3 and related text description).

# Claim 32:

<u>DuBois</u> also discloses the method according to claim 29, wherein the build management logic is configured to transfer the template to a head-end site, or receive the template from the head-end site(Machine 2 or Machine 3) (see for example, p.10, Figure 1-4, "Software development and porting with imake and make", steps about transferring software and Imakefile from Machines 1 to Machines 3 and related text description).

## Claim 33:

<u>DuBois</u> further discloses the method according to claim 29, wherein the build management logic is configured to encapsulate information obtained from the library and the template in a package, and to transfer the package to another site (see for example, p.10, Figure 1-4, "Software development and porting with imake and make", steps 1-3, "Machine 1: write software and Imakefile", "move software to Machine 2" and "Machine 2: run imake to generate Makefile build software using Makefile" and related descriptions).

#### Claim 34:

<u>DuBois</u> also discloses the method according to claim 29, wherein the build management logic is configured to generate a plurality of sets of configuration instructions to build a respective plurality of programmable machines (see for

example, p.23, Figure 2-1, generates Makefile by using input files "Imakefile and configuration files" and also see p.24, lines 11-27, three generated Makefiles with a plurality of sets of configuration instructions to build three different systems)

# Claim 35:

<u>DuBois</u> further discloses an method according to claim 34, wherein the build management logic is configured to generate a synchronization file (rule macro) that specifies a manner in which the configuration of each machine in the plurality of programmable machines impacts other machines within the plurality of programmable machines (see for example, p.35-36, "Recognize Target-building Patterns" and p.38 example of rule macro)

## Claim 36:

<u>DuBois</u> also disclose a computer readable storage medium executed on a computing device having data structures and machine readable instructions for implementing the method of claim 29 (see for example, p.10, Figure 1-4, steps 1-3, "move software to Machine 2" and "move software to Machine 3" to implement the method as discussed in claim 29 above)

17. Claims 14, 16-23 and 37-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Suorsa (Suorsa et al., US 7,152,109 B2)

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## Claim 14:

<u>Suorsa</u> discloses a system for generating configuration (provision) instructions used to build a programmable machine, comprising:

- a head-end site (see for example, Fig.7, element 31 and related text),
   including:
  - head-end logic configured to interact with a remote client site (see for example, Fig.7, element 38, "communication Gateway" and related text);
     and
  - a central database coupled to the head-end logic, the central database containing at least one package that specifies configuration instructions (see for example, Fig.7, element 32, "Central Database" and related text), said at least one package including:
    - a plurality of objects representing aspects of a configuration process (see for example, col.9, lines 54-55, "This database comprises a repository of all pertinent information about each of the devices");
    - a plurality of parameters associated with respective objects (see for example, col.9, lines 60-61, "The information stored in this database comprises all data that is necessary to provision a device"); and
    - at least one template(model) for organizing the plurality of objects in accordance with a predetermined framework (see for

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example, col.15, lines 14-16, "the model for the intended configuration"); and

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- a configuration site (see for example, Fig.7, devices 1...N and related text), including:
  - a local database for storing configuration instructions used to configure at least one machine associated with the configuration site (see for example, Fig.7, element 36, "agent" and related text); and
  - logic configured to receive and store said at least one package in the local database (see for example, Fig.10 and also see col.10, lines 39-40, "the agent 36 communicate with the central file system... to retrieve the required packages")
  - logic configured to generate configuration instructions used to configure at least one programmable machine based on said at least one package (see for example, col.10, lines 44-46, "commands can also be sent to the agent to instruct it to remove certain software, to configure the network portion of the operating system...").
- Wherein a group of interrelated machines may be built by downloading one or more packages; wherein the configuration of the machines may bbe changed by loading another package (see for example, Fig.9, different bundle including different package for different configuration device and also see Fig.5 and related text)

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## Claim 16:

<u>Suorsa</u> discloses an apparatus for generating configuration instructions used to build a programmable machine, comprising:

A build management logic configured to automate building (see for example, col.9, lines 40-67, "hardware configuration of the device", "logical information rereading the device...")

- the library having:
  - a plurality of generic objects representing aspects of a configuration process for the programmable machine (see for example, col.9, lines 54-55, "This database comprises a repository of all pertinent information about each of the devices"); and
  - a plurality of parameters associated with respective generic objects (see for example, col.9, lines 60-61, "The information stored in this database comprises all data that is necessary to provision a device");
  - a template providing a framework in combination with the library to reconstruct a description of the programmable machine (see for example, col.9, lines 47-52, "Two fundamental function are implemented by the provisioning network" and related description)
- build management logic configured to specify a set of objects from the library to implement the configuration of the programmable machine, and configured to generate the configuration instructions from the set of objects (see for example, col.10, lines 44-46, "commands can also be sent to the agent to

instruct it to remove certain software, to configure the network portion of the operating system..."); and

- a user interface configured to allow a user to interact with the build management logic (see for example, Fig.7, element 40, "User Interface" and related text).
- Wherein the user interface displays predetermined templates to accept input in response to Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to the predetermined templates (see for example, Fig.7, element 40, "User Interface" and related text; also see col.14, "lines 4-20, "predefined script" and related text)

## Claim 17:

<u>Suorsa</u> further discloses the apparatus according to claim 16, wherein the user interface further includes a tree display section configured to display objects organized as a hierarchical tree (see for example, Fig.9, "Rol XYZ" and related text).

#### Claim 18:

<u>Suorsa</u> discloses the apparatus according to claim 17, and further discloses wherein the user interface further includes a parameter display section configured to display information pertaining to parameters that are associated with at least one of the objects in the tree display section (see for example,

col.12, lines 29-31, "Rather, through the user interface, the operator first modifies the model for that device which stored in the database").

## Claim 19:

The apparatus according to claim 18, wherein the user interface further includes a properties display section configured to display properties of at least one of the objects in the tree display section or at least one parameter in the parameter display section (see for example, col.12, lines 29-31, "Rather, through the user interface, the operator first modifies the model for that device which stored in the database").

#### Claim 20:

<u>Suorsa</u> also discloses the apparatus according to claim 16, wherein the build management logic includes logic configured to display ownership information at user interface. (see for example, col.17, lines 34-35, "Once the customer tier identification number has been determined"),

## Claim 21:

<u>Suorsa</u> further discloses the apparatus according to claim 16, wherein the build management logic includes logic configured to display version information associated with information stored in the library (see for example, col.12, lines 34-41, "Preferably, the version history of the module is stored as well").

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Claim 22:

Suorsa further discloses the apparatus according claim 16, wherein the build

management logic further includes logic configured to restrict a user's right to

manipulate information stored in the library based on the user's membership in

one of a plurality of groups (see for example, col.13, lines 52-55, "The definition

of the roles to be assigned to a device and stored in the database 32 is carried

out through the user interface 40. The different roles can be associated with

different access rights, to thereby affect their ability to be manipulated.")

Claim 23:

Suorsa also discloses the apparatus according to claim 16, wherein the build

management logic includes logic configured to apply validation rules to the entry

of parameter information to determine whether the entered parameter information

meets predetermined criteria (see for example, col.14, lines 37-39, "Thus, the

present invention provides a technique whereby the validity of a message or a

command transmitted to an agent may be verified").

Claim 37:

<u>Suorsa</u> discloses a method for processing requests for configuration instructions,

comprising:

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receiving a request from at least one configuration site for a configuration package, the configuration package including the configuration instructions(see for example, col.10, lines 38-40, "Upon receiving the address of the appropriate software, the agent 36 communicates with the central file system 34 to retrieve the required packages" also see col.9, lines 60-65, "The information stored in this database comprises all data that is necessary to provision a device");

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- accessing a central database to retrieve the requested configuration package (see for example, p.10, lines 38-40, "Upon receiving the address of the appropriate software, the agent 36 communicates with the central file system 34 to retrieve the required packages"); and
- transmitting the requested configuration package to the configuration site for its use in configuring at least one machine at the configuration site (see for example, Fig.5, steps 2a and 3a "configure" and related text; also see col.10, lines 42-44, "The commands that are sent to the agent also instruct it to configure..."),

wherein the configuration package include:

 a plurality of objects representing aspects of a configuration process (see for example, col.9, lines 54-55, "This database comprises a repository of all pertinent information about each of the devices");

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a plurality of parameters associated with respective objects (see for example, col.9, lines 60-61, "The information stored in this database comprises all data that is necessary to provision a device"); and

- at least one template for organizing the plurality of objects in accordance with a predetermined framework (see for example, col.15, lines 14-16, "the model for the intended configuration").
- programmable machines; and the build management logic is further configured to provide an user interface to manage data assignment for the specific collection of programmable machines, wherein the user interface accepts input and returns output (see for example, section 4.1 "User-Provided Input Files" and "Generated Output Files" indicates that there must have a user interface for display output as example output shows at p.23)

# Claim 38:

<u>Suorsa</u> also discloses an apparatus for generating configuration instructions used to build a programmable machine, comprising:

- build management logic configured to automate building by working in conjunction with a database (see for example, Fig.7, element 32, 33 "Central Database" and related text)
- the database having:

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 a plurality of configuration items representing aspects of a configuration process (see for example, col.9, lines 54-55, "This database comprises a repository of all pertinent information about each of the devices"); and

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- a plurality of features associated with respective configuration items, wherein at least one of the configuration items includes at least one of the following features: parameter information pertaining to at least one parameter associated with the configuration item; ownership information identifying an individual assigned ownership of the configuration item; and validation information identifying at least one validation rule applicable to the configuration item (see for example, col.11, lines 9-11, "Before releasing the package to the agent, the file server can check with the central database to determine whether the agent should have access rights to that package"); and
- build management logic configured to specify a set of configuration items from the database to implement the configuration of the programmable machine, and configured to generate the configuration instructions from the set of items (see for example, col.10, lines 42-44, "The commands that are sent to the agent also instruct it to configure...").
- the build management logic is further configured to provide an user interface to manage data assignment for the specific collection of programmable machines, wherein the user interface accepts input and returns output (see for example, section 4.1 "User-Provided Input Files" and "Generated Output

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Files" indicates that there must have a user interface for display output as example output shows at p.23)

#### Claim 39:

Claim 39 claims a computer readable medium having stored thereon a data structure, which recites the same limitation of the method claim and apparatus in claim 37 and 38 respectively, wherein all claimed limitations have been address and/or set forth above. Therefore, as the reference teaches all the limitation of claim 37 or 38, it also anticipates the claim 39.

## Claim Rejections - 35 USC § 103

- 18. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 19. Claims 7, 30 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>DuBois</u> (Paul DuBois, "Software Portability with imake", 1<sup>st</sup> edition, Published on July 1993) in view of <u>Jacquemot</u> (Jacquemot et al., US 2004/0003388)

#### Claim 30:

<u>DuBois</u> discloses the method according to claim 29, wherein the template (project tmpl or Imake tmpl) is expressed in text file format (see for example, p.64, Figure 4-2, example of Imake tmpl file), but does explicitly disclose that the template is expressed in a markup language and has a form defined by a schema. However, <u>Jacquemot</u> in the same analogous art of preparation of a software configuration discloses using an XML type programming language (see for example, p.1, paragraphs[0007], [0016] and [0022]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use XML to write template files in <u>DuBois</u>' teaching. One has motivation to use XML, because it is simple, standard and flexible in use as suggested by <u>Jacquemot</u> (see for example, p.1, paragraph [0007], "a form which is simple, standard an flexible in use")

## Claim 7:

Claim 7 is a product version, which recites the same limitation of the method claim in claim 30, wherein all claimed limitations have been address and/or set forth above. Therefore, as the reference teaches all the limitation of claim 30, it also teaches the limitations of claim 7.

#### Claim 42:

<u>DuBois</u> the computer readable medium according to claim 40, wherein the schema is a plain text format (makefile), but does not explicitly disclose the

schema is a markup language schema. However, <u>Jacquemot</u> in the same analogous art of preparation of a software configuration discloses using an XML type programming language (see for example, p.1, paragraphs[0007], [0016] and [0022]). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use XML to write template files in <u>DuBois</u>' teaching. One has motivation to use XML, because it is simple, standard and flexible in use as suggested by <u>Jacquemot</u> (see for example, p.1, paragraph [0007], "a form which is simple, standard an flexible in use")

20. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Vaughan</u> (Vaughan et al., GNU Autoconf, Automake and Libtool, 1<sup>st</sup> edition, Published on Oct. 2000)

## Claims 1-5:

Claims 1-5 are a product version, which recite the same limitations of those method claims in claims 24-28, wherein all claimed limitations have been address and/or set forth above. Therefore, as the references teach all the limitation of claims 24-28, they also teach the limitations of claims 1-5 respectively.

21. Claims 6, 8-13, 15 and 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>DuBois</u> (Paul DuBois, "Software Portability with imake", 1<sup>st</sup> edition, Published on July 1993)

# Claims 6 and 8-13:

Claims 6 and 8-13 are a product version, which recite the same limitations of those method claims in claims 29 and 31-36, wherein all claimed limitations have been address and/or set forth above. Therefore, as the references teach all the limitations of claims 29 and 31-36, they also teach the limitations of claims 6 and 8-13 respectively.

## Claim 15:

Claims 15 is another product version, which recite the same limitations of the method claim in claim 29, wherein all claimed limitations have been address and/or set forth above. Therefore, as the references teach all the limitations of claim 29, it also teaches the limitations of claim 15.

## Claim 40:

<u>DuBois</u> discloses a method to configure and make software build for different types of computer system, the method discloses:

 a machine element pertaining to a machine to be configured (see for example, p.23, Figure 2-1, "configuration files: complex and contain machinespecifics" and related text);

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 a stage element pertaining to a stage involved in configuring the machine (see for example, p.46, generated makefile example, stage element: "proga" and "install");

- a phase list element pertaining to a list of phases used to implement the stage (see for example, p.46, generated makefile example, phase list: "cc –o proga proga.o –lm");
- a parameter element pertaining to a parameter associated with the configuration of the machine (see for example, p.46, generated makefile example, parameter element: "\$(CC)"); and
- a value element pertaining to a value assigned to the parameter (see for example, p.46, generated makefile example, value element: "CC=cc").

Claim 40 claims a computer readable medium, which is a product version recites the same limitations of the method discussed above, wherein all claimed limitations have been address and/or set forth. Therefore, as the references teach all the limitations of above, claim 40 is unpatentable.

## Claim 41.

<u>DuBois</u> also discloses the computer readable medium according to claim 40, further including: a group element referring to group in which the machine is a member (see for example, p.46, generated makefile example, "#include INCLUDE IMAKEFILE" and comments).

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#### Conclusion

22. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

23. Applicant's arguments with respect to claims rejection have been considered but are most in view of the new grounds of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

24. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zheng Wei whose telephone number is (571)

270-1059 and Fax number is (571) 270-2059. The examiner can normally be reached on Monday-Thursday 8:00-15:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571- 272-1000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tollfree). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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